

PROJECT DESCRIPTION

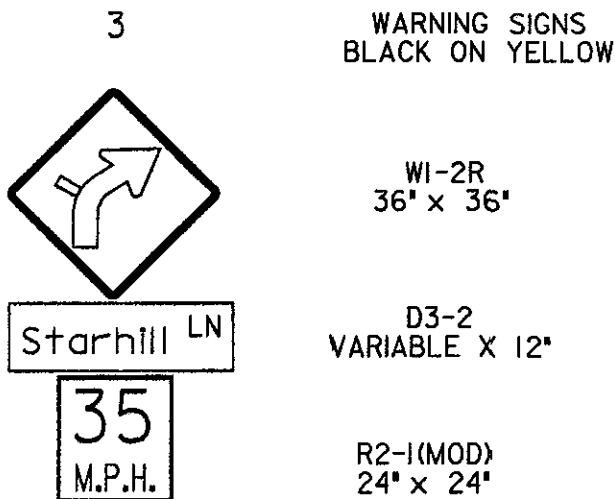
GENERAL INFORMATION AND OPERATION:

THIS PROJECT INVOLVES THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON WITH ALTERNATING FLASHING YELLOW SIGNAL HEADS. THE H.I.B. SHALL REPLACE THE EXISTING WARNING SIGN FOR STARHILL LANE EASTBOUND APPROACH ON MD 144 (FREDERICK RD.). THE STRUCTURE IS A WARNING DEVICE. THE EXISTING SIGN STRUCTURE SHALL BE REMOVED.

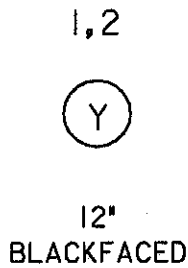
SPECIAL NOTES:

- ALL UTILITIES AND RIGHT-OF-WAY LINES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, MR. G. PANCHOLI AT 410-582-5682, SEVENTY-TWO HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE CONFLICT MAY BE RESOLVED.
- UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT 410-787-7635, TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH A PHONE NUMBER. THE NEAREST STREET ADDRESS IS 2530 FREDERICK RD. (ACROSS THE ROAD), 21228 IS THE ZIP CODE.

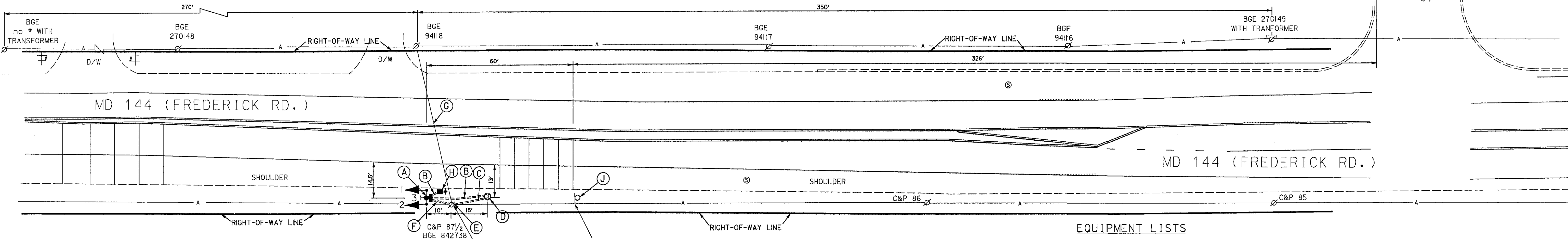
PROPOSED SIGNS



PROPOSED SIGNALS



MD 144 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



CONSTRUCTION DETAILS

- INSTALL 14' STEEL PEDESTAL POLE WITH TRANSFORMER BASE, 'G' SIZE POLE MOUNTED CABINET, PHOTOCELL, TRAFFIC SIGNAL HEADS, AND SIGNS. (NOTE: 1-2' & 1-3' PVC, SCHEDULE 80 BENDS).
- INSTALL 3' PVC, SCHEDULE 80 ELECTRICAL CONDUIT- TRENCHED.
- INSTALL 4' PVC, SCHEDULE 80 ELECTRICAL CONDUIT FOR THE SERVICE, TRENCHED TO THE UTILITY POLE LEAVE 2' OF CONDUIT ABOVE GRADE CAPPED AND MARKED AT THE BASE.
- INSTALL METERED SERVICE PEDESTAL, (NOTE: 1-3' AND 1-4' PVC, SCH 80 BENDS).
- UTILITY POLE NO. C&P 87 1/2, BGE 842738 IS TO BE USED. (NOTE: TWO-2' PIECES OF PVC, SCHEDULE 80 BENDS ABOVE GRADE (CAPPED AND MARKED) 1-2' FOR THE PHONE DROP AND 1-3' FOR THE SERVICE FEED TO BE USED BY OTHERS.
- INSTALL 2' PVC, SCHEDULE 80 ELECTRICAL CONDUIT FOR THE PHONE DROP TRENCHED TO THE UTILITY POLE LEAVE 2' OF CONDUIT ABOVE GRADE CAPPED AND MARKED AT THE BASE.
- PROPOSED OVERHEAD SERVICE CABLE FROM BG&E POLE NO. 94118 TO UTILITY POLE NO. 842738 TO BE SUPPLIED BY BGE.
- INSTALL HANDHOLE WITH GROUND ROD.
- REMOVE EXISTING SIGNS AND SUPPORT.

OVERHEAD HEIGHTS
TELEPHONE 17'-10"
TELEPHONE 19'-4"
TELEPHONE 20'-3"
BACK GUY 28'-8"
BACK GUY 28'-8"

OVERHEAD HEIGHTS
TELEPHONE 13'-1"
TELEPHONE 17'-1"

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. SCOTT RANDALL
ASSISTANCE DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781/2885

MS. SUENETTE POPE
DISTRICT UTILITY ENGINEER
PHONE: 410-321-2841

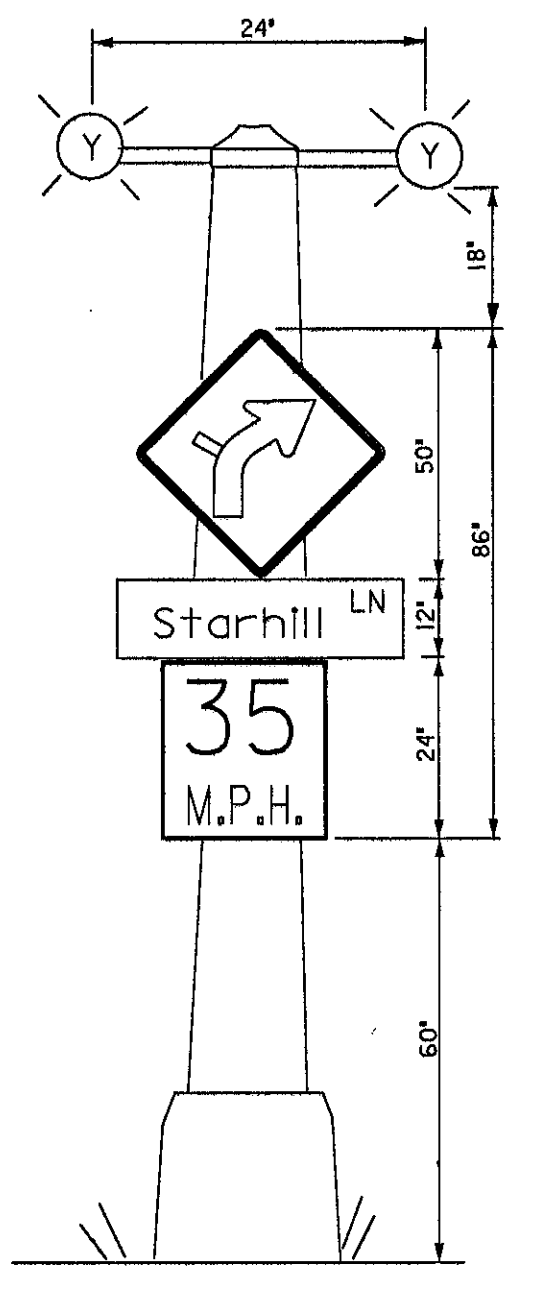
MR. STEVE MARCIZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-321-2761

THE CONTACT PERSONS FOR SHA-DOTS ARE AS FOLLOWS:

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

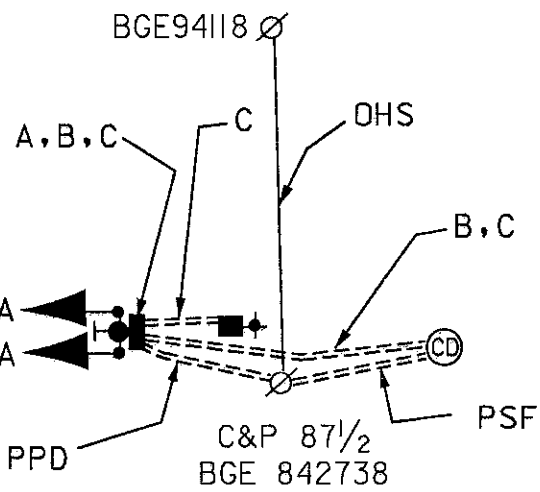
INSTALLATION DETAIL



WIRING KEY

- A — 3 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE
- B — 1 CONDUCTOR (NO. 8 AWG) THHN/THWN SERVICE CABLES (3 WIRES)
- C — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- DHS—PROPOSED OVERHEAD SERVICE INSTALLED BY BGE.
- PPD—PROPOSED PHONE DROP
- PSF—PROPOSED UNDERGROUND SERVICE FEED
- GROUND ROD

WIRING DIAGRAM



LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

- A — AERIAL CABLE
- E — ELECTRIC
- T — TELEPHONE
- G — GAS
- S — SEWER
- W — WATER
- TV — CABLE TV
- SD — STORM DRAIN

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM	QUANTITY	DESCRIPTION
9012	1 EA	ECONOLITE ASC/2S-2100 CONTROLLER.
9037	1 EA	CABINET 'G' TYPE POLE MOUNTED.
9067	1 EA	PEDESTAL POLE 14' WITH T-BASE AND ANCHOR BOLTS.
9571	18 SF	SHEET ALUMINUM SIGN, (BL/YEL) POLE MOUNTED.
	1 EA	W1-2 "CURVE AND ROAD ENT. WARNING" (36"x36").
	1 EA	D3-2 "STARHILL LN" (VARIABLE X 12").
	1 EA	R2-1mod "35 M.P.H." (24"x24").

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC.
2002	1 CY	TEST PIT EXCAVATION.
8000	1 EA	TO BE NEGOTIATED REMOVE SIGN STRUCTURE AND SUPPORT.
8011	2 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.
8031	1 EA	FURNISH AND INSTALL PHOTOCELL.
8041	1 EA	INSTALL POLE (ANY SIZE).
8051	28 LF	FURNISH AND INSTALL 3" PVC, SCHEDULE 80 CONDUIT-TRENCHED.
8053	20 LF	FURNISH AND INSTALL 4" PVC, SCH 80 CONDUIT-TRENCHED W/PULL STRING.
8057	3 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION.
8060	50 LF	FURNISH AND INSTALL NO 6 AWG STRANDED BARE COPPER GROUND WIRE.
8069	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL.
8071	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE -THREE (3) 1 CONDUCTOR NO 8 AWG THHN/THWN (HIB).
8072	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
8075	18 SF	INSTALL POLE MOUNTED SIGN.
8080	1 EA	FURNISH AND INSTALL GROUND ROD (3/4" DIA. X 10' LENGTH).
8083	25 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG).
8091	15 LF	FURNISH AND INSTALL 2" PVC, SCHEDULE 80 CONDUIT-TRENCHED.
8092	1 EA	INSTALL CONTROLLER AND 'G' CABINET -POLE MOUNT.

BAI

BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS

9220 RUNSEY ROAD, SUITE 110
COLUMBIA, MARYLAND 21045
(410)-884-3607

REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
10-27-02
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
10-27-02
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
10-27-02
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

HAZARD IDENTIFICATION BEACON WEST OF
STARHILL LANE ON MD 144 (FREDERICK RD.)

DRAWN BY: E. MILESKY
CHECKED BY: R. MILSTEAD
SCALE: 1" = 20'
DATE: 9-18-02
F.A.P. NO.
S.H.A. NO. XX1065385
COUNTY: BALTIMORE
LOG MILE: 03014401.27
TS NO. 4198
T.I.M.S. NO. F326
SHEET NO. 1 OF 1